

AMENDMENTS TO THE CLAIMS

The presentation of the claims below is provided in compliance with MPEP § 1453. Accordingly, only those claims that are amended relative to U.S. Pat. No. 6,321,074, as granted, are shown below.

1. (Amended) Apparatus for reducing frequency pulling of an output VCO involving AM modulation wherein the output frequency is structured to be larger than a synthesizer VCO frequency by a factor greater than unity to maintain a non-harmonic relation between the synthesizer and the output VCO, the apparatus comprising:

a source for signals;

the synthesizer for synthesizing said signals being in communication with a first frequency divider;

a second frequency divider connected to the output VCO;

a third frequency divider connected to said second frequency divider and further connected to said synthesizer;

a mixer connected to the transmission side of the output VCO and further connected to the transmission side of said second frequency divider;

a pretransmission filter connected to said mixer on the transmission side; and

an amplifier connected to the pretransmission filter and further connected to a transmitter;

the output frequency at said amplifier being non-harmonically related to the synthesizer VCO to thereby minimize frequency pulling during the AM modulation of the output VCO; and

wherein said third frequency divider is structured to distribute  $\frac{1}{N}$  x 50% of the frequency from the output VCO to the phase detector.

3-7. Cancel claims 3-7.